(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 18 December 2003 (18.12.2003)

PCT

(10) International Publication Number WO 03/104966 A2

(51) International Patent Classification7:

PCT/IB03/02100 (21) International Application Number:

4 June 2003 (04.06.2003) (22) International Filing Date:

(25) Filing Language:

English

G06F 3/033

(26) Publication Language:

English

(30) Priority Data:

102 25 316.1

6 June 2002 (06.06.2002) DE

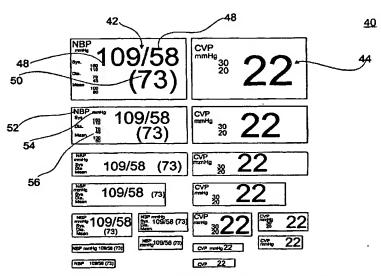
- (71) Applicant (for DE only): PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]; Steindamm 94, 20099 Hamburg (DE).
- (71) Applicant (for all designated States except DE, US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GEGNER, Günter [DE/DE]; c/o Philips Intellectual Property & Standards

GmbH, Weisshausstr. 2, 52066 Aachen (DE). GREINER, Harald [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE). MEIER, Wilhelm [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE). TESSEL, Uli [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).

- (74) Agent: MEYER, Michael; Philips Intellectual Property & Standards GmbH, Weisshausstr. 2, 52066 Aachen (DE).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: METHOD OF OPTIMIZING THE PRESENTATION ON A DISPLAY SCREEN OF OBJECTS OF A USER INTER-FACE WHICH CAN BE FREELY POSITIONED AND SCALED BY MEANS OF CONTROL ELEMENTS



(57) Abstract: The invention relates to a method of optimizing the presentation on a display screen of objects of a user interface which can be freely positioned and scaled by means of control elements. This is realized by means of a predetermined calculation rule in such a manner that the objects can be automatically varied between a still readable minimum size and a selected maximum size in dependence on the object contents, selected preferred settings and the available display resource on the display screen, and that the available display screen surface is optimally filled, possibly while eliminating less important details of the object contents and while changing the display mode of the object contents and/or the object as well as while avoiding mutual overlapping of the objects.